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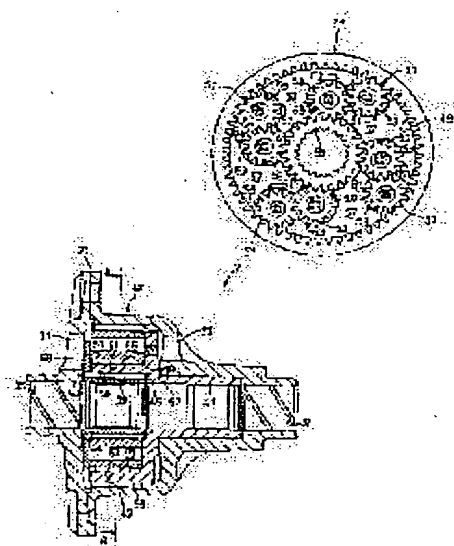
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## (54) PLANETARY GEAR MECHANISM

## (57)Abstract:

**PURPOSE:** To miniaturize, and to reduce the weight of a planetary gear mechanism such as a differential mechanism by constituting it so as to be made up of an internal gear and a sun gear which are coaxially arranged, pinion gears connecting these gears, and a pinion carrier having housing chambers in which the pinion gears are housed and rotatably supported by the tooth crest parts thereof.

**CONSTITUTION:** A differential mechanism 47 (planetary gear mechanism) arranged inside the differential gear case 21 of a rear differential gear 7 is made up of an internal gear 49, pinion gears 51 on the outer side, pinion gears 53 on the inner side, and a sun gear 55. The internal gear 49 is formed in the differential gear case 21, and the sun gear 55 is formed in the hub 39 on the left side. And the pinion gears 51, 53 are housed in the cylindrical housing chambers 59 with a partially cutout part which have been provided in a pinion carrier 57, and the respective gears 51, 53 are rotatably supported inside the carrier 57 in such a way that the tooth crest parts 61, 63 of the respective gears 51, 53 slidably move along the wall surface of the housing chamber 59.



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